AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1.   (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol and a network using a packet-oriented protocol, comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node ;

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node ; and

forwarding payload data between the different networks using a mapping result

wherein the service parameters are related to a service differentiation and service differentiation is achieved across a network boundary between the network using a circuit-orientated protocol and the network using a packet-orientated protocol.

2.   (Original) The method of claim 1, wherein

said circuit-switched service parameters define a circuit-switched transmission of data and a circuit-switched signalling and

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling.

3.   (Original) The method of claim 1, wherein

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said circuit-switched service parameters define a packet-switched transmission of data and a circuit-switched signalling and

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling.

4.   (Previously Presented) The method of claim 2, wherein

circuit-switched service parameters defining said circuit-switched signalling define multi-level service information) or bearer capability information .

5.   (Previously Presented) The method of claim 3, wherein

circuit-switched service parameters defining said circuit-switched signalling define multi-level service information or bearer capability information .

6.   (Previously Presented) The method of claim 4, wherein said multi-level service information comprises:

precedence information to assign a priority to a call or

pre-emption information for a seizure of resources by a higher level precedence call in the absence of idle resources.

7.   (Previously Presented) The method of claim 5, wherein said multi-level service information comprises:

precedence information to assign a priority to a call or

pre-emption information for a seizure of resources by a higher level precedence call in the absence of idle resources.

8.   (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol and a network using a packet-oriented protocol , comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node ;

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mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node ; and

forwarding payload data between the different networks using a mapping result; wherein

said circuit-switched service parameters define a circuit-switched transmission of data and a circuit-switched signalling,

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through bit settings in a service differentiation field (DS) of data packets,

wherein the service differentiation is achieved across a network boundary between the network using a circuit-orientated protocol and the network using a packet-orientated protocol.

9.   (Original) The method of claim 8, wherein

said service differentiation field (DS) is a Traffic Class Octet according to IPv6 or a Type of Service Field according to IPv4.

10.   (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol and a network using a packet-oriented protocol , comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node ;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa said interworking node ; and

forwarding payload data between the different networks using a mapping result; wherein

said circuit-switched service parameters define a packet-switched transmission of data and a circuit-switched signalling,

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said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through bit settings in a service differentiation field (DS) of data packets,

wherein the service differentiation is achieved across a network boundary between the network using a circuit-orientated protocol and the network using a packet-orientated protocol.

11.   (Original) The method of claim 10, wherein

said service differentiation field (DS) is a Traffic Class Octet according to IPv6 or a Type of Service Field according to IPv4.

12.   (Previously Presented) The method of claim 11, wherein

circuit-switched service parameters defining said circuit-switched signalling define multi-level service information) or bearer capability information .

13.   (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol and a network using a packet-oriented protocol , comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node ;

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node ;

and

forwarding payload data between the different networks using a mapping result; wherein

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said circuit-switched service parameters define a circuit-switched transmission of data and a circuit-switched signalling,

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through resource reservation (RSVP),

wherein the service differentiation is achieved across a network boundary between the network using a circuit-orientated protocol and the network using a packet-orientated protocol.

14.   (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol and a network using a packet-oriented protocol , comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node ;

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node ; and

forwarding payload data between the different networks using a mapping result; wherein

said circuit-switched service parameters define a packet-switched transmission of data and a circuit-switched signalling,

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through resource reservation (RSVP),

wherein the service differentiation is achieved across a network boundary
between the network using a circuit-orientated protocol and the network using a packet-
orientated protocol.

15.   (Currently Amended) A service parameter interworking method adapted to
achieve a service parameter exchange between a network using a circuit-oriented
protocol and a network using a packet-oriented protocol , comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-
oriented protocol or packet-switched service parameters from the network using the
packet-oriented protocol at an interworking node ;

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service
parameters;

mapping said circuit-switched service parameters into corresponding packet-
switched parameters or vice versa in said interworking node ; and

forwarding payload data between the different networks using a mapping result;
wherein

said circuit-switched service parameters define a packet-switched transmission
of data and a circuit-switched signalling,

said packet-switched service parameters define a packet-switched transmission
of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched
service parameters for service differentiation in the network using the packet-oriented
protocol through protocol label switching,

wherein the service differentiation is achieved across a network boundary
between the network using a circuit-orientated protocol and the network using a packet-
orientated protocol.

16.   (Currently Amended) A service parameter interworking method adapted to
achieve a service parameter exchange between a network using a circuit-oriented
protocol and a network using a packet-oriented protocol , comprising the steps:

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receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node ;

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node ; and

forwarding payload data between the different networks using a mapping result; wherein

said circuit-switched service parameters define a circuit-switched transmission of data and a circuit-switched signalling,

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through protocol label switching,

wherein the service differentiation is achieved across a network boundary between the network using a circuit-orientated protocol and the network using a packet-orientated protocol.

17.   (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol and a network using a packet-oriented protocol , comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node ;

checking the allowability of the service parameters;

If the service parameters are not allowable, negotiating allowable service parameters;

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mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa said interworking node ; and

forwarding payload data between the different networks using a mapping result, wherein

the mapping of said circuit-switched service parameters into corresponding packet-switched service parameters in said interworking node is carried out using at least one mapping table

wherein the service parameters are related to a service differentiation and service differentiation is achieved across a network boundary between the network using a circuit-orientated protocol and the network using a packet-orientated protocol.

18.   (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol and a network using a packet-oriented protocol , comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node ;

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node ; and

forwarding payload data between the different networks using a mapping result, wherein

a mapping of said circuit-switched service parameters into corresponding packet-switched service parameters in said interworking node is modifiable during an ongoing payload data forwarding,

wherein the service parameters are related to a service differentiation and service differentiation is achieved across a network boundary between the network using a circuit-orientated protocol and the network using a packet-orientated protocol.

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19.   (Previously Presented) The method of claim 18, wherein

said mapping of circuit-switched service parameters into corresponding packet-switched service parameters in said interworking node is carried out using at least one mapping table.

20.   (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol and a network using a packet-oriented protocol , comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node ;

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node ; and

forwarding payload data between the different networks using a mapping result,

further comprising a step of negotiation mapping conditions before said actual mapping starts,

wherein the service parameters are related to a service differentiation and service differentiation is achieved across a network boundary between the network using a circuit-orientated protocol and the network using a packet-orientated protocol.

Claims 21-28 (Canceled).

29. (New) A computer system comprising:

a means for achieving a service parameter exchange between a network using a circuit-oriented protocol and a network using a packet-oriented protocol, wherein service parameters are related to a service differentiation and service differentiation is achieved across a network boundary between the network using a circuit-oriented protocol and the network using a packet-oriented protocol;

a storage node for storing a relation between circuit-switched service parameters for the network using the circuit-oriented protocol and packet-switched service parameters for the network using the packet-oriented protocol; and

a interworking node for mapping circuit-switched service parameters into corresponding packet-switched service parameters or vice versa.

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